



Trade name: Fronius Electrolyte Powder

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## 1. Identification of the substance/preparation and of the company/undertaking

### Product details:

#### Part-number:

42,0411,8041

#### Use of the substance/preparation:

electrolyte powder to dissolve in water (for electro-chemical cleaning of stainless steel)

#### Manufacturer/Supplier:

Fronius International GmbH  
Günter Fronius Straße 1  
A-4600 Wels-Thalheim  
Tel.: +43 / (0)7242 / 241-0  
Fax: +43 / (0)7242 / 47825

#### Office to contact for information:

TSI (TechSupport International)  
Tel.: +43 / (0)7242 / 241-3440  
Fax: +43 / (0)7242 / 241-3930  
e-mail: [welding.techsupport@fronius.com](mailto:welding.techsupport@fronius.com)  
[www.fronius.com](http://www.fronius.com)

#### Emergency hotline:

Austrian Anti-Poison Center +43 / (0)1 / 4064343

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## 2. Composition/Information on the ingredients

### Chemical characterization:

#### Description:

Mixture of the substances mentioned below with non-hazardous additions

#### Dangerous constituents:

- > 30 % / sodium acid sulphate / Xi; R41 / CAS: 7681-38-1, EINECS: 231-665-7
- > 30 % / citric acid / Xi; R36 / CAS: 5949-29-1, EINECS: 201-069-1

#### Additional information:

For the wording of the mentioned hazard notes see section 16.

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## 3. Possible hazards

### Hazards identification

Risk of serious damage to the eyes

### Information concerning particular hazards for human and environment:

Main effects due to irritating properties.

### Classification system:

The classification is in accordance with the current EC lists. Further it is supplemented with information from technical literature and company information.

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## 4. First-aid measures

### General information:

Immediately remove contaminated garments

**After inhalation:**

Provide fresh air, lay out the patient, consult a doctor in case symptoms develop

**After skin contact:**

- Immediately wash off thoroughly with plenty of running water

**After eye contact:**

Rinse opened eye for several minutes with running water and consult a doctor

**After swallowing:**

- Rinse out mouth and drink plenty of water.
- Do not induce vomiting, consult a doctor

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**5. Fire-fighting measures****Suitable extinguishing agents:**

water, the product itself does not burn

**For safety reasons unsuitable extinguishing agents:**

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**Special exposure hazards arising from the substance or preparation itself, combustion products or resulting gases:**

sulphuric acid, decomposition products, nitrogen oxides

**Special protective equipment for fire-fighters:**

Wear safety clothing

**Further information:**

self-contained breathing equipment

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**6. Accidental release measures****Person-related safety precautions**

Adhere to protective measures mentioned in section 8

**Measures for environmental protection:**

- Do not discharge to environment (sewers, rivers, ground, etc.)
- fill into sealed containers

**Measures for cleaning/collecting:**

collect product mechanically

**Additional information:**

If necessary, use neutralising agent.

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**7. Handling and storage****Handling:****Information for safe handling:**

Avoid dust formation.

**Information about protection against explosions and fires:**

The product itself does not burn.

**Storage**

**Conditions required for storage rooms and vessels:**

Only store in original container.

**Incompatible materials:**

- Do not store together with oxidants, animal nor human food.

**Further information on storage conditions:**

store at temperature < 30°C  
and humidity < 70%

**Storage class:**

VCI: 8

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**8. Exposure controls and personal protection****Additional information about the design of technical systems:**

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**Components with limit values that require monitoring at the workplace:**

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**Additional information:**

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**Personal protective equipment:**

- Breathing equipment: dust protection
- Protection of hands: if necessary, clean after contact with wet skin
- Eye protection: Eye protection
- Body protection: protective workwear
- General protective measures: keep away from food and drinks
- Hygienic measures: Do not eat nor drink during work, wash hands before breaks and after use

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**9. Physical and chemical properties****General information:**

- Appearance: powder / granules
- Colour: white to yellowish
- Odour: odourless

**Change of physical state:**

not applicable

**Flashpoint:**

not applicable

**Flammability (solid / gas)**

not applicable

**Ignition temperature:**

not applicable

**Self-ignition:**

not applicable

**Oxidising properties:**

not applicable

**Explosion hazard:**

not applicable

**Explosion limits:**

LEL: void; UEL: void

**Vapour pressure at 20°C**

not applicable

**Density at 20°C**

1,320 g/l

**Solubility at 20°C**

appr. 1,000 g/l of water

**PH value at 20°C:**

1.3 (with 10 g/l of water)

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**10. Stability and reactivity****Conditions to avoid:**

heating product above 180°C

**Materials to avoid:**

alkalis

**Dangerous products of decomposition:**

void

**Further information:**forms O<sub>2</sub> during dissolution

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**11. Toxicological information****Acute toxicity:****Primary irritation effects:**

- on the eye: irritating effect on the eyes (risk of severe eye damages)
- sensitisation: no sensitising effect known

**Other information:**

ensure safe handling

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**12. Ecological information****Behaviour in environment compartments:**

Neutralise product before discharging to waste-water treatment plants (shift of pH value).

**Ecotoxicity:****Aquatic toxicity:**

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**Behaviour in waste-water treatment plants:**

Neutralise product before discharging to waste-water treatment plants (shift of pH value).

**General information:**

Ensure that product is neutralised or heavily diluted before discharging to drainage ditch / sewer.

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**13. Disposal considerations****Product:****Recommendation:**

- Dispose of to a hazardous waste collection point as chemical-physical or thermal treatment is required.
- Do not dispose of together with household waste

**Waste code number:**

- 52102 acc. to ÖNORM S 2101
- 060106 acc. to EAK

**Uncleaned packagings:**

- Recommendation: Dispose of according to official regulations.
- Recommended cleaning agent: water

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**14. Transport information****Land transport ADR/RID and GGVS/GGVE (border-crossing/national):**

No hazardous transport freight

**Sea transport IMDG/GGVSea:**

No hazardous transport freight

**Air transport ICAO-TI and IATA-DGR:**

No hazardous transport freight

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**15. Regulatory information****Labelling acc. to EC directives:**

The product is assessed and labelled according to EC directives and the applicable Austrian laws and regulations.

**Code letter and hazard designation of product:**

Xi - irritating

**Hazard-determining components of labelling:**

sodium acid sulphate

**Risk phrases**

R 41 - Risk of serious damage to the eyes

**Safety phrases**

- S1/2 Keep locked up and out of the reach of children
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28 After contact with skin, wash immediately with plenty of water
- S37/39 Wear suitable gloves and goggles / face protection during work
- S46 If swallowed, seek medical advice immediately and show this container or label
- S56 Dispose of this material and its container at hazardous or special waste collection point

**Water hazard class:**

water hazard class 1 (self-assessment): weak hazard for waters

**Other regulations:**

To be labelled according to the Austrian Chemical law

## 16. Other information

The information given in this material safety data sheet are valid for the mentioned product only. It may no longer apply if the product is processed or mixed with other substances. This information is based on our present knowledge and is intended to describe the product with a view to the safety precautions to take.

### Relevant risk phrases

- R36 Irritates the eyes
- R 41 Risk of serious damage to the eyes